

Message Text

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46
ACTION ACDA-10

INFO OCT-01 EUR-12 EA-07 IO-13 ISO-00 ACDE-00 SSO-00

NSCE-00 USIE-00 INRE-00 AF-08 ARA-06 CIAE-00 DODE-00

PM-04 H-02 INR-07 L-03 NASA-01 NEA-10 NSAE-00 NSC-05

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AMEMBASSY STOCKHOLM
AMEMBASSY TOKYO
USMISSION NATO
ERDA HQ WASHDC
ERDA GERMANTOWN

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DISTO

E.O. 11652: GDS
TAGS: PARM, CCD, US, UR
SUBJECT: CCD - FOURTH MEETING OF EXPERTS ON MDW, AUG 12, 1976

1. SUMMARY: FOURTH EXPERTS' MEETING ON MDW HELD THURSDAY
MORNING AUGUST 12 AFTER PLENARY. SIX STATEMENTS WERE
MADE. GDR CITED DEVELOPMENTS IN LASER TECHNOLOGY AS EXAMPLE
OF HOW MODERN SCIENTIFIC DEVELOPMENTS COULD LEAD TO WMD.
SOVIET EXPERT CITED MORE EXAMPLES OF POTENTIAL DEVELOPMENTS
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OF WMD. AND SAID THAT BW CONVENTION DID COVER USE OF GENETIC
ENGINEERING AS WMD IF BASED ON BIOLOGICAL AGENTS, BUT NOT
IF BASED ON CHEMICAL OR PHYSICAL PRINCIPLES. BUCHEIM,
US EXPERT, SAID DISCUSSION HAD BEEN HELPFUL FOR FORMULAT-

ING VIEWS TOWARD SOVIET INITIATIVE AND BRIEFLY DISCUSSED SIX POINTS THAT WOULD BE CONSIDERED FURTHER. POLISH EXPERT SAID WMD BASED ON WAVE PHENOMENA NOT YET DEMONSTRATED BUT COULD NOT BE RULED OUT. ALLEN, UK, READ OUT ARTICLE I OF BW CONVENTION AS RESPONSE TO THOSE WHO QUESTION SCOPE OF CONVENTION. LIKHACHEV OF USSR THEN EXPRESSED HIS THANKS TO EXPERTS FOR CONTRIBUTING TO DISCUSSION WHICH HE SAID HAD BEEN USEFUL. HE RECOGNIZED THAT CONCLUSION OF AN AGREEMENT WAS NOT AN EASY MATTER. END SUMMARY.

2. DR. JUNGER, GDR EXPERT, SPOKE ON DEVELOPMENT IN PHYSICAL METHODS OF ACTION WHICH COULD LEAD TO NEW WMD AND DRESSED SPECIFICALLY DEVELOPMENTS IN LASERS AND QUANTUM ELECTRONICS. MENTIONED THAT US HAD ACHIEVED CONTINUOUS LASER POWER OF 60 KW AND SAID THERE WAS AS YET NO PHYSICAL BARRIERS IN SIGHT TO PREVENT FURTHER DEVELOPMENTS. THIS, HE CLAIMED, WAS TRUE IN OTHER BRANCHES OF PHYSICAL SCIENCE ALSO, SO THAT SUCH DEVELOPMENTS COULD LEAD TO NEW WMD. THEREFORE, HE SAID IT WAS NECESSARY TO INCLUDE ALL FREQUENCIES IN ELECTROMAGNETIC SPECTRUM IN DEFINITION OF NEW WMD. HE SAW NO BASIS FOR CONCERN THAT AGREEMENT ON WMD COULD LIMIT DEVELOPMENTS FOR PEACEFUL PURPOSES. AGREEMENT WOULD NOT, FOR EXAMPLE, IMPAIR RESEARCH ON PEACEFUL LASERS NEEDED FOR DEVELOPMENT OF LASER-FUSION POWER AND INDUSTRIAL APPLICATIONS; BUT WOULD PREVENT RESULTS BEING USED FOR NEW WMD OR NEW SYSTEMS.

3. FOKIN, USSR EXPERT, SAID HE WOULD FURTHER DEVELOP SOME PROVISIONS IN SOVIET DOCUMENT, AND RESPOND TO SOME QUESTIONS RAISED IN DISCUSSIONS: HE STATED THAT 1948 RESOLUTION OF THE UN COMMISSION ON CONVENTIONAL ARMAMENTS WAS USED IN THEIR APPROACH. THAT DOCUMENT, HE SAID, RECOGNIZED FUTURE DEVELOPMENTS OF WMD, CHARACTERIZED AS SUCH BECAUSE OF COMPARABLE FORCE TO EXISTING WMD. A PREVIOUS THREAT NOW EXISTED BECAUSE OF DEVELOPMENTS OF SCIENCE AND TECHNOLOGY. SOVIET DOCUMENT CHARACTERIZED ALL WMD, OLD AND CONFIDENTIAL

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NEW, AND EVEN THOS WHICH CANNOT NOW BE VISUALIZED. HE SAID THE CLAIM OF SOME THAT BW AND POTENTIAL CW CONVENTIONS COVER ALL WMD BASED ON BIOLOGICAL AND CHEMICAL ACTION WAS NOT WELL FOUNDED. HE GAVE EXAMPLES OF THE CATALYTIC CONVERSION OF OXYGEN TO OZONE, AND AIR TO NITROGEN-OXIDE, AND OF FUEL-AIR EXPLOSIVES. WITH RESPECT TO GENETIC ENGINEERING, HE SAID THAT USE OF BIOLOGICAL AGENTS TO ACHIEVE SUCH EFFECTS IS INDEED PROHIBITED BY BW CONVENTION. HOWEVER, EFFECTS OF GENETIC ENGINEERING COULD BE ACHIEVED BY CHEMICAL AND PHYSICAL METHODS, AND SUCH USE AS WEAPONS WAS NOT PROHIBITED; USE OF RADIATION FOR SUCH A PURPOSE WAS GIVEN AS AN EXAMPLE. USE OF RADIATION, BOTH ACOUSTIC WAVE AND ELECTROMAGNETIC, WAS

AGAIN BROUGHT UP AS POTENTIAL WMD AND IS POTENTIAL HARMFUL EFFECTS DESCRIBED. AMONG EXAMPLES WAS THAT OF LOW-POWER ELECTROMAGNETIC WAVES AT RADIO FREQUENCIES, USE OF WHICH COULD LEAD TO PHYCHO-TROPIC EFFECTS, BECAUSE OF INTERACTION WITH ALPHA RHYTHM OF BRAIN WAVES. NEW FACTS ON THIS, HE SAID, WERE RAISING QUESTION OF LOWERING ACCEPTABLE DOES LEVEL. HE BRIEFLY REFERRED TO POTENTIAL USE OF RADIOACTIVE MATERIAL AS WMD AND ALSO NOTED POSSIBLE USE OF ELEMENTARY PARTICLE ACCELERATORS AS WMD. CONCLUDING, HE CLAIMED THEIR EXAMPLES WERE ILLUSTRATIVE OF NEW WMD WHICH COULD LEAD TO ESTABLISHMENT OF LARGE NEW ARSENALS.

4. TEXT OF STATEMENT BY BUCHEIM, US EXPERT, BEING TRANSMITTED SZPTEL.

5. PROFESSOR MOLESKI, POLISH EXPERT, RESPONDED TO QUESTIONS RAISED IN DISCUSSION. WITH RESPECT TO USE OF WAVE PHENOMENA HE SAID NEW WEAPONS BASED ON SUCH PHENOMENA HAVE NOT BEEN DEVELOPED. HOWEVER, SUCH POTENTIAL NOT NOW COVERED BY ANY BAN. SPOKE BRIEFLY ON TECHNICAL ASPECTS OF INFRA-SOUND. HE SAID SOUND GENERATORS TO ACHIEVE POWER DENSITY OF ONE WATT PER SQUARE CENTIMETER NOT POSSIBLE NOW, BUT THIS WOULD BE ACHIEVED IN NEAR FUTURE. REFERRED TO EXAMPLE OF LASERS AS DEVELOPMENT THAT WAS AT ONE TIME NOT FORESEEN, AND SIMILAR DEVELOPMENT MIGHT OCCUR WITH RESPECT TO ACOUSTIC PHENOMENA. HE THEN SAID THAT WMD AGREEMENT SHOULD NOT BE EXPECTED TO RESTRICT SCIENTIFIC RESEARCH. PROBLEMS OF POTENTIAL

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WEAPON USE ONLY ARISE WHEN APPLIED DEVELOPMENTS OF SCIENTIFIC RESEARCH TAKE PLACE.

6. ALLEN OF UK THEN READ OUT ARTICLE I OF BW CONVENTION WITHOUT COMMENT, BUT AS IMPLIED RESPONSE TO THOSE WHO QUESTIONED SCOPE OF BW PROHIBITION.

7. LIKHATCHEV OF USSR SAID THAT END OF ROUND OF DISCUSSIONS ON SOVIET PROPOSAL ON NEW WMD AND NEW BEEN REACHED. HE NOTED THAT 15 EXPERTS FROM 11 COUNTRIES HAD PARTICIPATED AND EXPRESSED HIS THANKS FOR CONTRIBUTIONS TO DISCUSSION. HE SAID THERE WAS URGENT NEED FOR ELABORATION OF WMD AGREEMENT TO ESTABLISH BARRIER TO NEW RUNG IN ARMS RACE. EXCHANGE OF VIEWS IN DISCISSIONS HAVE BEEN USEFUL; PROBLEM OF CONCLUSION OF AN AGREEMENT IS NO EASY MATTER. IT WAS NECESSARY COMMITTEE STUDY MATTER FURTHER. HE SAID SOVIETS ALSO WOULD STUDY AND CONSIDER FURTHER STEPS REQUIRED TO DEVELOP SUBJECT. CATTO

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THE HAGUE
OTTAWA
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STOCKHOLM

TOKYO

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ERDA HQ

ERDA GERMANTOWN

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